BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :PACKAGE-6

DRAFT TENDER SCHEDULE

Sl. No.	Description of Work	Unit	Quantity	Rate in Figures	Rate in Words
1	Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum	1874.23	166.42	Rupees One Hundred Sixty Six and Forty Two Paise Only
2	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .(Road)	Cum	13.46	5159.02	Rupees Five Thousand One Hundred Fifty Nine and Two Paise Only
2(a)	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .(Playground)	Cum	103.66	5256.36	Rupees Five Thousand Two Hundred Fifty Six and Thirty Six Paise Only
3	Removing B.S.slab of Drain and stacking as per the directions of the Engineer-in-charge of the work .	Sqm	429.45	65.72	Rupees Sixty Five and Seventy Two Paise Only
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) as per the directions of the Engineer-in-charge of the work .	Sqm	408.23	80.56	Rupees Eighty and Fifty Six Paise Only
5	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per the directions of the Engineer-in-charge of the work .	Sqm	124.50	665.68	Rupees Six Hundred Sixty Five and Sixty Eight Paise Only
6	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per the directions of the Engineer-in-charge of the work .(Road)	Sqm	687.84	825.74	Rupees Eight Hundred Twenty Five and Seventy Four Paise Only
6(a)	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per the directions of the Engineer-in-charge of the work .(Playground)	Sqm	147.40	841.32	Rupees Eight Hundred Forty One and Thirty Two Paise Only

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7	Earthwork excavation by manual means in ordinary soil including an average horizontal throw upto maximum 30 mtrs 1.5 m, excavated surface leveled and dressed, the disposed earth to be levelled neatly also breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum	199.06	86.97	Rupees Eighty six and Ninety Seven Paisa Only
8	Lead for disposal of earth shall be payable at Carriage rate it and & Lift by mechanical means including loading and unloading up to 1Kms as per the directions of the Engineer in charge of the work .	Cum	2087.11	112.78	Rupees One Hundred Twelve and Seventy Eight Paise Only
9	Providing laying, spreading and compacting crushed stone aggregates of granite/trap basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density, complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum	199.06	1768.08	Rupees One Thousand Seven Hundred Sixty Eight and Eight Paise Only
10	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labbour, HOM of machineries complet as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	691.55	13.78	Rupees Thirteen and Seventy Eight Paise Only
11	Providing and applying tack coat using 80/100 grade bitumen (VG 10) on granular base such as WBM surface hot bitumen primed at 4kg per 10 sqm heating bitumen in boiler with spray set (Excluding cleaning of Road surface) inlcuding cost of all materials, labbour, HOM of machineries complete as per specifications and as per the directions of the Engineer in charge of the work .	Sqm	691.55	19.08	Rupees Nineteen and Eight Paise Only
12	Providing and laying bituminous macadam on prepared surface with crushed coarse as per design mix formula for base / binding courseincluding loading of aggregates with P.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant transporting the mixed material in tipper to paver and laying mixed materials, with paver finisher to the required level and grade,rolling by power roller to achieve the desired density,but excluding cost of primer/tack coat including lead,lift and cost of all materials,labour,HOM of machineries complete as per specification and as per the directions of the Engineer-in-charge of the work .	Cum	36.31	5733.54	Rupees Five Thousand Seven Hundred Thirty Three and Fifty Four Paise Only
13	Cleaning the existing black topped surface with brooms soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labbour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	20729.43	3.18	Rupees Three and Eighteen Paise Only

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14	Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20kg per sqm on the existing prepared bituminous surface cleaned with mechanical broom. complete as per specification and as per the directions of the Engineer-in-charge of the work .	Sqm	20729.43	9.54	Rupees Nine and Fifty Four Paise Only
15	Providing and laying bituminous concrete using crushed aggregates of specified grading,premixed with bituminous binder and filler,transporting the hot mix to work site,laying with a paver finisher to the required grade, level and alignment,rolling with smooth wheeled,vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum	912.43	9012.12	Rupees Nine Thousand Twelve and Twelve Paise Only
16	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	346.42	542.72	Rupees Five Hundred Forty Two and Seventy Two Paise Only
17	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specification and as per the directions of the Engineer-in-charge of the work .	Cum	55.82	827.86	Rupees Eight Hundred Twenty Seven and Eighty Six Paise Only
18	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum	55.82	3986.66	Rupees Three Thousand Nine Hundred Eighty Six and Sixty Six Paise Only

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19	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications and as per the directions of the Engineer-in-charge of the	Cum	58.61	6217.96	Rupees Six Thousand Two Hundred Seventeen and Ninety Six Paise Only
20	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	14.00	685.82	Rupees Six Hundred Eighty Five and Eighty Two Paise Only
21	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary Soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	Cum	264.31	204.12	Rupees Three Hundred Five and Sixty Four Paise Only
22	Benching hard rock 5 to 7.5 cm depth. for seating of foundation, including cost of all labour complete as per specifications.	Cum	0.66	1460.16	Rupees One Thousand Four Hundred Sixty and Sixteen Paise Only
23	Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	18.17	5449.68	Rupees Five Thousand Four Hundred Forty Nine and Sixty Eight Paise Only

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24	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	54.51	4359.96	Rupees Four Thousand Three Hundred Fifty Nine and Ninety Six Paise Only
25	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications.	Cum	136.29	5668.92	Rupees Five Thousand Six Hundred Sixty Eight and Ninety Two Paise Only
26	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.	Sqm	63.42	249.48	Rupees Two Hundred Forty Nine and Forty Eight Paise Only
27	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton.	Sqm	6.96	513.00	Rupees Five Hundred Thirteen Only
28	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	3.29	5985.36	Rupees Five Thousand Nine Hundred Eighty Five and Thirty Six Paise Only
29	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming toIS 9103-1999 Reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached plasters,columns, piers, abutments, pillars, posts, struts, buttresses, bed blocks, anchor blocks,& plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.	Cum	12.00	6718.68	Rupees Six Thousand Seven Hundred Eighteen and Sixty Eight Paise Only
30	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) - Ready mixed Cement concrete for Beams, Staircase and Roof with M-25	Cum	68.11	6550.20	Rupees Six Thousand Five Hundred Fifty and Twenty Paise Only

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31	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Tonne	2.56	60534.00	Rupees Sixty Thousand Five Hundred Thirty Four Only
32	Providing two line dressing to granite stone slab / granite stone masonry as per specifications.	Sqm	147.40	981.72	Rupees Nine Hundred Eighty One and Seventy Two Paise Only
33	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing	Sqm	60.57	191.16	Rupees One Hundred Ninety One and Sixteen Paise Only
34	Providing and fixing 20mm thick gang saw water cut sadarhalli grey granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing.minimum width of 1200mm.	Sqm	60.57	2144.88	Rupees Two Thousand One Hundred Forty Four and Eighty Eight Paise Only
35	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	68.67	279.72	Rupees Two Hundred Seventy Nine and Seventy Two Paise Only
36	Providing and finishing external walls with primer in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm	68.67	90.72	Rupees Ninety and Seventy Two Paise Only
37	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications	Sqm	681.08	638.28	Rupees Six Hundred Thirt Eight and Twenty Eight Paise Only

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38	Fabrication supplying and erecting M.S. tubular trusses of all spans with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification	Kgs	5792.49	118.80	Rupees One Hundred Eighteen and Eighty Paise Only
39	Providing and installing of Prepainted Galvolume iron trapezoidal profiled sheet of approved make 1060mm width(1000mm cover width)28-30mm crest hight with crest distance of 200mmc/c with 2ribs at the center for stiffening. the total coated thickness(TCT)of sheet will be .47mm +/-.02mm tolerance Zinc alu-alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade,5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self screws of 25mm length,to be fixed over the existing purlins,rafters,channels and trusses.epainted Galvalum sheet colour sheet of .45mm thk (TRAPEZOIDAL PROFILED SHEET)	Sqm	134.60	831.60	Rupees Eight Hundred Thirty One and Sixty Paise Only
40	Providing and installing approved make pre painted Galvalume iron accessories,like,plain,ridges,plain gutter,plain flashing,corner trim,etc. The total coated thickness(TCT) of the sheet shall be 0.47 mm +/-0.02 tolerance mm Zinc -Alu alloy coating AZ 150 gsm as per ASTM 1397/755-550 mpa steel grade, 5-7 microns epoxy primer on both sides of sheet and polyester top coat 20-22 micrns using self drilling/self tapping scews of length 25mm(width upto 500-600 mm only),to be fixed over existing purlins,rafters,chanels ,and trusses.	Sqm	18.50	799.20	Rupees Seven Hundred Ninety Nine and Twenty Paise Only
41	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.	Sqm	134.60	31.32	Rupees Thirty One and Thirty Two Paise Only
42	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Sqm	704.30	88.56	Rupees Eighty Eight and Fifty Six Paise Only
43	Providing and laying of granite slabs of 7.5cms thickness to gallery steps and erecting of stuss and purlins using crane.(crane charges per day)	Hrs	120.00	647.00	Rupees Six Hundred Forty Seven Only

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44	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge.	Cum	264.31	127.98	Rupees One Hundred Twenty Seven and Ninety Eight Paise Only

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